2015 Economic State of the B.C. Forest Sector

August 2016
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Outline

- Overview
- Products
- Markets
- Sector Indicators
- Conclusions and Outlook
- Appendix (additional slides for all topics)
Ministry Economic Reports

- **Weekly Prices**: Tracks weekly prices relevant to the B.C. forest sector.

- **Monthly Exports**: Export values by major market and product groups, including some quantity information.

- **Annual Mill Report**: Summary outlining B.C.’s harvest and timber processing activity during the year.

- **Log Exports**: Summary of permit information ([direct link](#) to Permit Report).

- **Economic State of the BC Forest Sector**: Year in review for the B.C. forest sector.
Overview of B.C. Forest Sector

- **Includes** forest management, harvesting, reforestation, wood product manufacturing, and paper product manufacturing.

- **Plays a key role in the provincial economy**, especially in communities outside the Lower Mainland.

- **Is export-oriented**, depending heavily on global markets and exchange rates.

- **Is cyclical**, affected by the global forest commodity markets and general performance of the world economy.
Overview of 2015

- **In aggregate, 2015 was a similar year to 2014**, with a mix of “ups” and “downs” that saw the sector come out a bit ahead of 2014.

- **B.C.’s forest sector manufacturing sales increased** slightly in 2015, though many product prices fell. Sales gains were almost entirely due to non-lumber solid wood products.

- **The U.S. market** continued to gradually improve, as seen in the U.S. housing market and higher B.C. forest sector exports to the U.S.

- **China** continued as the second largest export market for B.C.’s forest sector. Lumber and log export values and volumes fell, but they improved for pulp.

- **Employment increased** slightly in 2015.

- **The B.C. forest sector continues to recover** from 2009, the sector’s worst year of the recession, and one of the worst years for B.C. forestry in recent history.

*All references to China in this report include Hong Kong.

Note: Numbers may not add properly to totals, or always be the exact same on each slide due to rounding.
Overview Indicator 1 – B.C. forest sector manufacturing sales in 2015 were up 1.2% from 2014 and accounted for 30% of B.C. total manufacturing sales. Exports were up 69% from 2009, and were up 3.9% from 2014, accounting for 36% of B.C. total merchandise exports. During the U.S. Housing boom, 2004 was the peak in forest sector manufacturing sales and exports (CA$18.2 and CA$15.1 billion).
Overview Indicator 2 – B.C. forest sector direct employment was 65,500 in 2015, up 0.6% from 2014 and 18% from 2009. In 2015 there was an increase in Wood Product employment (6.8%) and Forestry and Logging with Support Activities (1.0%), but a decline in Pulp and Paper (-17.2%)

Data source: Statistics Canada via BC Stats; Labour Force Survey. There was a correction to the data being used which increased Wood Product Manufacturing employment by 2-5 thousand in any given year.
Products Overview

- **Wood Products, especially Lumber:** In 2015, B.C. produced 31.2 million cubic metres of lumber, or 50% of Canada’s total softwood lumber production. B.C. sawmill* sales (primarily lumber) were CA$4.9 billion in 2015, or 57% of total Wood Product Manufacturing sales in B.C.

- **Pulp and Paper Products, especially Market Pulp:** B.C. pulp mills** had sales of CA$2.6 billion in 2015, or 57% of total Paper Manufacturing sales in B.C.

- **Logs:** In 2015, 68.5 million cubic metres of logs were harvested. Exports of 5.6 million cubic metres (8.1% of harvest), mostly from coastal areas, were worth CA$666 million.

- **Wood Product-Pellets:** B.C. exported 1.26 million tonnes of wood pellets worth CA$201 million. The UK was the primary destination by weight (80%), followed by Italy (6.7%), Japan (6.4%), and South Korea (3.9%).

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*Excludes shake and shingle mill sales. Sawmills are a subcategory of Wood Product Manufacturing.

**Pulp is a subcategory of the Paper Manufacturing NAICS code.
Products – Wood Products – Wood Product Manufacturing sales totaled CA$8.6 billion in 2015. Sawmill sales accounted for 57% of Wood Product Manufacturing sales. From 2014 to 2015, Sawmill sales declined 1.7%, and Other Wood Products increased 9.4%.

Data source: Statistics Canada; CANSIM 304-0015. Sawmill sales are primarily lumber, and include chip and sawdust sales. Other wood products include veneer, plywood, oriented strand board, shake and shingles, wood pellets, and many other products.
Products – Softwood Lumber

- Softwood lumber production volume increased 4.6% in 2015. The Coast accounted for 12% of B.C. production. Lumber production in the past several years is comparable to the production in 1995-1999 when U.S. housing starts averaged around 1.5 million.

*Interior and Coast Share are Estimates. In all years the Interior includes production from Yukon, Northwest Territories, and Nunavut.

Data source: Statistics Canada; CANSIM 303-0064.
B.C. Softwood Lumber Production (31.2 million m³)
Share by Species, 2015

82.7% Spruce, pine and fir (SPF)
17.3% Other Softwoods

Data source: Statistics Canada; CANSIM 303-0064. Based on volume in cubic metres.

Products – Softwood Lumber – In 2015, 82.7% of softwood lumber production volume was spruce, pine or fir (SPF), and 17.3% was from other species such as cedar, Douglas fir, and hemlock.
Total Paper Manufacturing sales were CA$4.5 billion in 2015, decreasing by 0.2%. Pulp Mills declined 1.6% from 2014 to 2015, and accounted for 57% of total sales. Paper and Paperboard sales were up 0.3%, and Converted Paper was down 9.4%.

**B.C. Paper Manufacturing Sales**

<table>
<thead>
<tr>
<th>Year</th>
<th>Paper and Paperboard</th>
<th>Pulp Mills</th>
<th>Converted Paper</th>
<th>Pulp % Share of Paper Manufacturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>$2.7</td>
<td>$0.4</td>
<td>$2.4</td>
<td>49%</td>
</tr>
<tr>
<td>2007</td>
<td>$3.2</td>
<td>$0.4</td>
<td>$2.3</td>
<td>54%</td>
</tr>
<tr>
<td>2008</td>
<td>$2.8</td>
<td>$0.4</td>
<td>$2.2</td>
<td>52%</td>
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<tr>
<td>2009</td>
<td>$2.2</td>
<td>$0.3</td>
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<td>49%</td>
</tr>
<tr>
<td>2010</td>
<td>$2.9</td>
<td>$0.3</td>
<td>$1.7</td>
<td>59%</td>
</tr>
<tr>
<td>2011</td>
<td>$2.9</td>
<td>$0.3</td>
<td>$1.8</td>
<td>58%</td>
</tr>
<tr>
<td>2012</td>
<td>$2.5</td>
<td>$0.3</td>
<td>$1.7</td>
<td>56%</td>
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<tr>
<td>2013</td>
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<td>$0.3</td>
<td>$1.5</td>
<td>56%</td>
</tr>
<tr>
<td>2014</td>
<td>$2.6</td>
<td>$0.3</td>
<td>$1.6</td>
<td>58%</td>
</tr>
<tr>
<td>2015</td>
<td>$2.6</td>
<td>$0.3</td>
<td>$1.6</td>
<td>57%</td>
</tr>
</tbody>
</table>

Data source: Statistics Canada; CANSIM 304-0015.

**Products – Pulp and Paper** – Total Paper Manufacturing sales were CA$4.5 billion in 2015, decreasing by 0.2%. Pulp Mills declined 1.6% from 2014 to 2015, and accounted for 57% of total sales. Paper and Paperboard sales were up 0.3%, and Converted Paper was down 9.4%.
B.C. Pulp Export Share (4.3 million tonnes) by Product, 2015

- Chemical wood pulp, soda or sulphate, coniferous, bleached, NES: 74.8%
- Chemical wood pulp, soda or sulphate, coniferous, semi-bleached, NES: 14.8%
- Chemical wood pulp, soda or sulphate, coniferous, unbleached: 5.5%
- Chemical wood pulp, dissolving grades: 4.2%
- Other Pulp: 0.4%
- Dissolving pulp accounted for 0.4% of the export volume, and Other Pulp 0.2%.

Data source: Statistics Canada via BC Stats; CIMTD. Based on air dry tonnes. NES stands for “not elsewhere specified”.

Products – Pulp – Bleached sulphate (kraft) pulp dominates B.C.’s pulp exports. Dissolving pulp accounted for 0.4% of the export volume, and Other Pulp 0.2%.
Products – Logs – Total harvest volume (68.5 million m³) was up 3.3% from 2014, and up 40% from 2009. The Interior accounted for 74% of the harvest, and the Coast for 26%. The last few years of harvest are close to pre-beetle harvest uplift, pre-housing boom levels.

Products – Logs – Hemlock and Douglas fir make up roughly 2/3 of the harvest on the Coast. In the Interior the main species is lodgepole pine, followed by spruce.

The U.S., China, and Japan are the top three export markets for the B.C. forest sector.

The U.S. is the largest market and has improved substantially since 2009. It still has significantly less share of B.C. forest exports compared to pre-2009, but its value continues to increase steadily.

China has increased substantially over the last decade and is now in a strong second place. China’s share has remained around 30% since 2011. Total export value to China declined for the first time since 2008.

Japan has decreased since the late 1990s, but has been steady lately, and remains in third place since 2009. Lumber exports were up in terms of volume and value, but other products fell resulting in a net decline from 2014 to 2015 (-5.4%).

Other export markets made up 14% of total forest sector exports in 2015, with notable destinations being South Korea, the U.K., Taiwan, and Indonesia.
Markets – The U.S. was the #1 export market by value, and has been increasing steadily since the housing crash. China became the #2 market in 2009 and has been a key driver of the forest sector’s recovery since then. Japan was #2 for many years, until 2009, and is now #3.
Markets – U.S. – The U.S. was B.C.’s largest market in 2015 at CA$6.1 billion, an increase of 10.8% over 2014. The U.S.’s share of B.C.’s forest product exports increased to 47.6%.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Markets – China — B.C. forest product exports to China have hovered around 30% of total forest exports since 2011. The value in 2015 was CA$3.7 billion, a decrease of 1.6% over 2014. Lumber and log exports grew the fastest in recent years, but pulp still dominates with 56% of export value.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Markets – Japan

B.C.’s exports to Japan have decreased about 75% from peak years in the mid-1990s, but exports have been relatively steady in recent years. Exports were valued at CA$1.19 billion in 2015, a decrease of 5.4% from 2014. Lumber had the highest share of value with 64% in 2015.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

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Markets – Softwood Lumber

Prior to the U.S. housing crash B.C.’s lumber export market was heavily reliant on the U.S. Now other destinations, primarily China, have reduced the share of the U.S., though the U.S. still makes up the majority of B.C.’s lumber export value.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

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Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Markets – Pulp

China had a dominant 63% share of B.C. pulp exports in 2015, followed by the U.S. (13%), Japan (6%) and other destinations (18%). Over the past decade, exports to China have tripled while exports to other destinations have shrunk.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

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Markets – Pulp – China had a dominant share of B.C. pulp exports in 2015. Over the past decade, exports to China have more than doubled.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Markets – Logs

The value of log exports decreased by 15% in 2015. China (50%) remained the largest destination. South Korea (18%) and the U.S. (10%) increased slightly. Japan (21%) decreased in 2015 over 2014. Over the past decade China replaced the U.S. as the main log export market.
Markets – Logs – The volume of log exports decreased again in 2015. China fell roughly 0.5 million m³. South Korea (18%) and the U.S. (10%) increased slightly. Japan (21%) decreased in 2015 over 2014. Over the past decade China replaced the U.S. as the main log export market.
Overview of Sector Indicators

- **Prices and Costs:** Prices for most products fell in 2015, though for exports this was mitigated by continued depreciation of the Canadian dollar.

- **U.S. Housing Market:** U.S. housing starts were 1.1 million in 2015, the sixth year of gains since the 0.55 million start low in 2009. The share of multi-family starts is high though, which reduces wood consumption compared to similar levels of starts in the past.

- **B.C.’s Share of Canadian Forest Export Value:** B.C.’s share decreased slightly from 2014 to 2015, now accounting for 37% of Canadian forest product export value. This was in spite of increased B.C. export value, and increased softwood lumber and pulp export volumes.

- **Government Revenues:** Direct forestry revenues to government increased 17% in fiscal year 2015/16 compared to 2014/15.
Prices and Costs – North American and Japanese housing markets improved in 2015, but housing starts were still low compared to the early/mid 2000’s. Average SPF 2x4 lumber prices fell substantially in 2015. This may have been partially offset for Canadian exporters thanks to the depreciating Canadian dollar.

Data sources: Madison’s Lumber Reporter (SPF), U.S. Census Bureau, JAWIC and Statistics Canada.
Prices and Costs – The share of multi-family starts has been increasing since 2010, and they now account for roughly 36% of housing starts. The last time the share was this high was in the 1980s. Multi-family units use roughly 66-75% of the wood that a single family unit does.
Prices and Costs – In 2014, B.C. Interior softwood lumber mills had the second lowest variable costs in the U.S. and Canada. In 2011, the B.C. Interior was the lowest cost region, but in 2012 it moved to second due to increased delivered wood cost.
Prices and Costs – Pulp prices declined in 2015. Pricing of pulp in U.S. dollars provided B.C. producers with prices that actually increased in Canadian dollar terms, which could help cover costs of production.

Data source: Equity Research Associates (ERA).
Indexed Foreign Exchange Rates Relative to CA$

2000 Exchange Rates
0.67 US$/CA$
5.58 Yuan/CA$
72.62 Yen/CA$

2015 Exchange Rates
0.78 US$/CA$
4.92 Yuan/CA$
94.66 Yen/CA$


Prices and Costs – This shows the percent change in CA$ exchange rates compared to 2000. Increases indicate appreciation of the $CA and make Canadian exports less competitive. By the end of 2015 the CA$ had depreciated markedly against the US$ and Yuan compared to 2014, but are still above the rates in 2000. The Yen/$CA rate changed little from 2014 to 2015.
Prices and Costs – The cost of short-term borrowing increased slightly in 2015, but long-term borrowing rates fell. After the financial crisis of 2008, rates were lowered to stimulate the economy, and they continue to remain low.
Investment – B.C. forest sector investment (CA$1,811 million) increased 49% from 2013 to 2014. 2014 is the latest data for repairs. Expenditure includes investment in construction (e.g. buildings and land improvements) and in machinery and equipment. 2014 is the latest year for repair expenditure.

Data source: Statistics Canada; CANSIM 029-0045.

*Preliminary and intentions, subject to change. Data quality grade is often "Use with caution".
Investment – From 2013 to 2014 capital expenditure increased 77%, 2015 preliminary results indicate a 9.3% increase from 2014, and 2016 intention a decrease of 5.9%. Capital expenditure includes investment in construction (e.g. buildings and land improvements) and in machinery and equipment.

Data source: Statistics Canada; CANSIM 029-0045.
Investment – 2014’s results indicate B.C. forest sector repair expenditures increased 28% from 2013. Repair expenditure includes investment in construction (e.g. buildings and land improvements) and in machinery and equipment. 2014 is the latest data for repair expenditure.
B.C.’s Share – B.C.’s share of Canadian forest exports decreased slightly in 2015. Both B.C. and Canada saw the total value of forest exports rise in 2015.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD. Note sources may differ slightly.
In 2015/16, the B.C. government received direct forest revenues of CA$805 million, an increase of roughly CA$116 over the previous year. Revenue from timber sales increased by CA$45 million in 2015/16.

Data source: B.C. FLNR. Corporate and personal income taxes are not included in these figures. While not identical, similar numbers can be viewed in the B.C. Ministry of Finance Budget and Fiscal Plan, page 118. Forecasts are from the 2016/17 to 2018/19 Budget and Fiscal Plan.

**Government Revenues** – In 2015/16, the B.C. government received direct forest revenues of CA$805 million, an increase of roughly CA$116 over the previous year. Revenue from timber sales increased by CA$45 million in 2015/16.
B.C.’s forest sector showed improvement in sales value in 2015, even though many prices declined. This suggests the increase in sales is due to changes in the exchange rate and product quantities.

Chinese demand for logs, lumber, and pulp continued to play a key role in the B.C. forest sector. However, Russia continues to take market share from Canada, and despite higher total lumber imports into China Canada’s volume declined.

Compared to pre-recession, B.C.’s forest sector has better diversity in export destinations. China has a major share, and the U.S. and Japan continue as major markets. The B.C. forest sector is trying to further this diversification by promoting sales to India.
Outlook

- Stronger demand (mainly from China and a recovering U.S. market) and weaker B.C. timber supply are expected to have a positive impact on prices. So far in 2016 prices have shown mixed results, and the Canadian dollar is appreciating. However lumber export values and quantities are up (June YTD).

- China continued as the world’s largest importer of logs and lumber in 2015, though uncertainty in 2015 has raised questions about the strength of their demand. Russia’s continued increase in supply to China may harm B.C. exporters.
  
  However, an announcement by China to ban logging in natural forests could have major impacts on world markets. Some estimates claim a 40-50 million m³ decline in domestic harvest, but it remains to be seen how the policy is implemented.

- The softwood lumber dispute adds additional uncertainty to the U.S. lumber market. Negotiations are ongoing, with the one year standstill agreed to in the previous Softwood Lumber Agreement ending in October 2016.
Foreign demand for wood pellets has been strong, but Britain exiting the EU adds uncertainty to future demand.

Innovations and investments in markets, products and technologies will make the sector more competitive. Changing building codes to allow tall wood buildings, such as UBC’s 18 storey residence, and encouraging wood use over other building materials in general, are just two examples of programs that could grow the forest sector.

UBC’s residence is expected to use 2,233 m$^3$ of Cross-Laminated-Timber or Glulam, which is equivalent to the amount of lumber used in 60 single-family houses in Canada*.

*Source for houses conversion: Forest Economic Advisors
Appendix

- Overview (42-51)
  - Manufacturing sales, exports, GDP, Employment
- Products (52-61)
- Markets (62-76)
- Additional Sources (77)
**Overview Indicator 1a** – B.C. forest sector manufacturing sales (CA$13.1 billion) increased 1.2% from 2014, and 43% from 2009. The forest sector accounted for 30% of B.C. manufacturing sales.

Data source: Statistics Canada; CANSIM 304-0015.
Overview Indicator 1b – B.C. forest product exports (CA$12.9 billion) increased 3.9% from 2014, and 69% from 2009. The forest sector’s share of total B.C. export value trended down from 2000 to 2008, was relatively constant from 2008 to 2011, and has since increased about 5 percentage points.
Overview Indicator 2a – GDP in current dollars allows comparisons between sectors, industries (subsectors) and the provincial economy as a whole in a given year. It does not adjust for inflation. The decline in forestry’s share over time is partially due to a decline in forest sector GDP, but largely due to GDP growth of the B.C. economy as a whole.
Overview Indicator 2b – GDP in current dollars allows comparisons between sectors, industries (subsectors) and other sectors, such as the Goods Manufacturing sector, in a given year. It does not adjust for inflation. Since 2008 the Forest Sector has made up 12-13% of Goods Manufacturing GDP.
Overview Indicator 2c – Wood Product Manufacturing GDP has been climbing steadily since the low of 2009. Chained dollar GDP adjusts for changes in prices and quantities, and shouldn’t be compared across sectors, nor added across sectors.
Overview Indicator 2d – This chart shows the GDP of the Paper Manufacturing industry decreased since 2007, and has been relatively stable the last few years. Chained dollar GDP adjusts for changes in prices and quantities, and shouldn’t be compared across sectors, nor added across sectors.

Overview Indicator 2e – The past few years GDP from Support Activities for Forestry has been relatively steady, and so has GDP from Forestry and Logging. Both industries have increased from their levels in 2009. Chained dollar GDP adjusts for changes in prices and quantities, and shouldn’t be compared across sectors, nor added across sectors.

Data source: Statistics Canada; CANSIM 379-0030. Examples of Support Activities are cruising timber, hauling, pest control, firefighting, and reforestation.
According to the Labour Force Survey (LFS) B.C. forest sector direct employment increased to 65,500 in 2015, a 0.6% increase over 2014. All industries have expanded employment since 2009, especially Forestry and Logging with Support Activities.
Overview Indicator 3b – According to the Labour Force Survey (LFS) B.C. forest sector direct employment declined in the Interior and increased on the Coast.

Data source: Statistics Canada Labour Force Survey (LFS) data via B.C. Stats (Employment and Unemployment by Development Region). In this data North Coast is combined with Nechako, and in this chart North Coast-Nechako is included in the Interior.
Overview Indicator 3c – The Survey of Employment, Payrolls and Hours (SEPH) offers another estimate of employment. According to this survey B.C. forest sector direct employment increased to 51,793 in 2015. All industries have expanded employment. The SEPH survey only covers employees on payrolls, and so omits self-employed people. This means the estimate will be lower than the LFS.
Products – Logs – Total harvest volume (68.5 million m³) was up 3.3% from 2014. The Interior accounted for 74% of the harvest. Most of the harvest from private and federal lands comes from the Coast. Recent harvest is near pre-beetle, pre-housing boom levels (49.2 million m³).
B.C. Forest Product Exports by Main Product

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

Products – Exports – Share of B.C. forest product export value by main product in 2015: Logs (-15.1%), Softwood Lumber (2.5%), Other Wood Products (22.2%), Pulp (5.7%), and Other Paper Products (-6.9%).
Spruce-Pine-Fir (SPF) lumber is by far the highest-volume lumber product exported from B.C., followed by Western red cedar, hemlock-fir (balsam), and Douglas fir.

**B.C. Softwood Lumber Export Volume (26.2 million m³)**

**Share by Species, 2015**

- **Spruce, pine, and fir (SPF)**: 77.0%
- **Western red cedar**: 5.4%
- **Hem-fir**: 5.2%
- **Douglas Fir**: 6.0%
- **Other**: 6.3%

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Log export volume fell by 11.2% in 2015. The vast majority of log exports came from the Coast, rather than the Interior.

Data source: B.C. FLNRO Harvest Billing System, and B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

*B.C. Log Export Volume and Share of Harvest*

B.C. Log Export Volume (5.6 million m³)
Share by Species, 2015

- Hemlock sawlogs accounted for around 48% of log exports in 2015, followed by Douglas Fir with 37%. Most of the hemlock went to China which is one of the few markets where the species is in strong demand.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD. Other includes pulp logs of all species, plus saw logs of other softwoods and hardwoods.

Products – Exports – Logs – Hemlock sawlogs accounted for around 48% of log exports in 2015, followed by Douglas Fir with 37%. Most of the hemlock went to China which is one of the few markets where the species is in strong demand.
B.C. Exports of Wood Waste and Scrap, and Pellets

*Pellets were included in Wood Waste and Scrap until 2012. Now pellets are separate.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

**Products – Exports – Pellets** – Exports of Wood Waste and Scrap grew rapidly up to 2011, probably almost entirely due to growth in Pellet exports. Exports of Pellets declined by 0.8% from 2014 to 2015. 2012 was the first year pellets were given their own product category in the export data.
Products – Imports – Value – Total value of imported forest products increased again in 2015. This year’s report includes secondary-manufactured goods in Other Wood Products, such as wood furniture, in order to be consistent with how exports are reported. This results in a substantial increase in imports (roughly CA$400-500 million) and means this chart can’t be compared to charts from previous reports. Note the final destination of these imports may have been beyond B.C.

Data source: Special run of Statistics Canada data via BC Stats. Similar data can be viewed on NRCAN’s website.
Imports of softwood lumber have been trending upward, but changed little from 2014 to 2015. Comparing import volume to B.C. production it is only about 4.5%. Coniferous wood chip imports declined for the first time since 2009. Note the final destination of these imports may have been beyond B.C.

### Select B.C. Forest Product Imports by Quantity

<table>
<thead>
<tr>
<th>Year</th>
<th>Softwood Lumber (m³)</th>
<th>Logs (m³)</th>
<th>Coniferous Wood Chips (Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>0.53</td>
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<td>0.05</td>
</tr>
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<td>2007</td>
<td>1.04</td>
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<td>2008</td>
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<td>2009</td>
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<td>2010</td>
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<td>2011</td>
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<tr>
<td>2015</td>
<td>1.40</td>
<td>0.11</td>
<td>0.83</td>
</tr>
</tbody>
</table>

Data source: Special run of Statistics Canada data via BC Stats. Similar data can be viewed on [NRCAN’s website](https://www.nrcan.gc.ca).
Markets – Starting in 2005 the U.S. share of export value fell dramatically and China’s share grew rapidly. This trend ended in 2012 and their shares diverged somewhat in 2015 with the U.S. increasing and China declining slightly.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Markets – U.S. – U.S. softwood lumber consumption and U.S. housing starts have increased steadily from the low in 2009, but both are still far from the peak level in 2005.

Data source: Western Wood Products Association and U.S. Census Bureau.
Markets – U.S.

U.S. softwood lumber consumption relies primarily on U.S. domestic supply, with the foreign share decreasing after 2006. The U.S. is still supplying a higher level of their consumption than during the housing boom, largely due to lower lumber demand resulting in less need for imports. Canada provided 29.9% of total U.S. consumption in 2015.

Data source: Western Wood Products Association.
Prices and Costs – From 2002 to 2011 the US$ depreciated about 33% relative to the Canadian dollar. Since 2011 the US$ has appreciated against the CA$, and this has continued in 2015 when compared to the exchange rate in 2000. The exchange rate impacts product prices and mill revenue.
Markets – China – In 2015, the gap between Russia’s share (35.6%) and Canada’s (21.2%) continued to widen. These two countries were followed by the U.S. (10.3%), and other countries (32.9%).

Data source: WOOD MARKETS China Bulletin. All species, including hardwoods.
Markets – China – In 2015 Canada (18.8%) was second behind Brazil (22.5%) as the leading supplier of China’s kraft market pulp imports. They were followed by Indonesia (12.9%), the U.S. (10.9%), and other countries (34.9%). China’s sulfate kraft pulp imports increased substantially in 2015.

Data source: WOOD MARKETS China Bulletin.
Markets – China

In 2015 New Zealand continues as China’s largest log supplier (25.5%). They were followed by Russia (22.8%), the U.S. (11.9%), Canada (5.9%) and other countries (37.3%).

Data source: WOOD MARKETS China Bulletin. All species, including hardwoods.

Markets – China – In 2015 New Zealand continues as China’s largest log supplier (25.5%). They were followed by Russia (22.8%), the U.S. (11.9%), Canada (5.9%) and other countries (37.3%).
Markets – Japan – Canada accounted for 32.5% of Japan’s total lumber import volume and 24.1% of Japan’s total log import volume in 2015.

Data source: Japan Wood-Products Information & Research Center (JAWIC).
B.C.’s share of Canada’s total softwood lumber export value was 68.6% in 2015, declining slightly compared to 2014.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Competitiveness – B.C.’s Share – In terms of value B.C. is the dominant supplier of Canada’s softwood lumber exports, followed by Quebec, Alberta, New Brunswick and other provinces.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
B.C. accounted for 43.0% of Canada’s total pulp export value in 2015.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.

Competitiveness – B.C.’s Share – B.C. accounted for 43.0% of Canada’s total pulp export value in 2015.
Competitiveness – B.C.’s Share – B.C. is the largest supplier of Canada’s pulp exports in terms of value, followed by Alberta, Quebec, Ontario and other provinces.
Competitiveness – B.C.’s Share – B.C. accounted for 25.6% of the value of Canada’s total forest product exports to the U.S. in 2015. B.C. exports increased by CA$0.6 billion and exports from Canada as a whole rose CA$2.3 billion.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Competitiveness – B.C.’s Share – B.C. accounted for 74.6% of Canada’s total forest product exports to China in 2015.
Competitiveness – B.C.’s Share – B.C. accounted for 83.4% of Canada’s total forest product exports to Japan in 2015.

Data source: B.C. Stats extract from Statistics Canada data. Also available from Statistics Canada CIMTD.
Data source: FLNR HBS. All logs, special forest products, species and grades billed, excluding waste, reject and Christmas trees. Data run on June 1, 2016.

**Competitiveness – Government Revenues** – Government stumpage revenue decreased 2.6% on the Coast with a 5.5% decrease in Crown harvest, and stumpage revenue was down 9.2% in the Interior with a 7.5% decrease in Crown harvest.
Competitiveness – Government Revenues – In 2015, Interior average stumpage increased CA$0.2/m³ (2%) and Coast average stumpage increased CA$0.3/m³ (3%).

Data source: FLNR HBS. Data run on June 1, 2016. Includes BCTS. Excludes waste and reject.
Additional Sources for Data

- Statistics Canada [wood product tables](#).
- Canadian [National Forestry Database](#).
- Food and Agriculture Organization of the United Nations (FAO).